

CLAIMS:

1. An array having a plurality of column electrodes and a plurality of rows of individually addressable OLED pixels, each row including a commonly shared electrode, comprising:

- a) wherein at least one OLED pixel in each row has a current limiting component and an organic electroluminescent diode and such that the at least one OLED pixel is connected between the commonly shared electrode and one of the plurality of column electrodes for conducting current therebetween; and
- b) wherein the organic electroluminescent diode is connected in series with the current limiting component.

2. An array comprising a plurality of rows of OLED pixels according to claim 1 wherein said current limiting component includes at least one diode.

3. An array comprising a plurality of rows of OLED pixels according to claim 1 wherein said current limiting component includes at least one electroluminescent diode.

4. An array comprising a plurality of rows of OLED pixels according to claim 1 wherein said current limiting component is a fuse.

5. An array comprising a plurality of rows of OLED pixels according to claim 1 wherein said current limiting component is a resistor.

6. An array having a plurality of column electrodes and a plurality of row electrodes and individually addressable OLED pixels, wherein each pixel includes a plurality of subpixels, and each row of OLED pixels includes a commonly shared electrode, comprising:

a) wherein the subpixels are connected in parallel between a row electrode and a column electrode, and each subpixel further includes an electroluminescent diode and a current limiting component; and

5 b) wherein the electroluminescent diode is connected in series with the current limiting component.

7. An array comprising a plurality of rows of OLED pixels according to claim 6 wherein said current limiting component is a resistor, a fuse, or a diode.

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8. The array according to claim 6 wherein the column electrode overlaps commonly shared electrodes and is segmented to form the electroluminescent diode between each segment and said commonly shared electrode, thereby forming a parallel diode for each said segment.

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9. An array comprising a plurality of rows of OLED pixels according to claim 8 wherein each said segment is a strip of said column electrode material.

20 10. An area lighting apparatus comprising an array of OLED cells arranged as one or more banks of OLED cells, comprising:

a) wherein each said OLED cell comprises an electroluminescent diode connected in series with a fuse;

25 b) each bank includes a plurality of said OLED cells connected in parallel; and

c) said one or more banks of OLED cells are connected to each other in series or in parallel.

30 11. An area lighting apparatus according to claim 10 wherein the plurality of banks of OLED cells are connected to an AC line power.

12. An area lighting apparatus according to claim 10 wherein the plurality of banks of OLED cells are connected to an DC power source.

5 13. A method for repairing of an array of individually addressable OLED pixels, comprising:

a) forming the array as a plurality of rows of organic electroluminescent diodes, each diode in each row connected between a commonly shared electrode for said each row and one of a plurality of column electrodes and
10 each diode in each row in series with a fuse; and

b) applying a reverse voltage between one said row and one said column electrode for blowing said fuse in series with a shorted diode.